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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/767,390

01/23/2001

Ivan Wu

JCLA6877

2449

23900

7590

04/23/2007

J C PATENTS, INC.

4 VENTURE, SUITE 250

IRVINE, CA 92618

EXAMINER

NGUYEN, HOAN C

ART UNIT

PAPER NUMBER

2871

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

04/23/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

09/767,390

Applicant(s)

WU ET AL.

Examiner

HOAN C. NGUYEN

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 30 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 8/7/03 and 8/26/04
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Response to Amendment*

Applicant's arguments with respect to claims 1-8 based on the Response filed on 03/30/2005 have been considered but are moot in old ground(s) of rejection. Therefore, this is Final action.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Takizawa et al. (US6573964B1).

In regard to claims 1 and 7, Takizawa et al. teach (Figs. 1, 3 and 6) a pixel structure for a liquid crystal display comprising

- a first substrate (upper substrate), with respect to a pixel, having a W-like extruding structure 11 composed of two V-like structures formed on a surface of the first substrate; which is respect to a top view of the first substrate;
- a second substrate (lower substrate), parallel to the first substrate, having a plurality of openings (split 20 formed on pixel electrode 1), wherein the openings

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are aligned along a direction from a tip of the V-like structures to an edge of the pixel structure and vertical to a long edge of the baguette pixel structure as shown in Fig. 6;

- a liquid crystal layer 22 located between the first substrate and the second substrate,

wherein

- the first substrate and the second substrate produce a multi-domain vertical alignment structure in the liquid crystal layer (col. 1 lines 11-16);
- the W-like extruding structure abuts (touches) the liquid crystal layer as Fig. 3 shown.

Claims 2 and 8:

- a shape of the openings comprises an isosceles triangle, and sides of the isosceles triangle are parallel to sides of the V-like structure as Fig. 6 shown.

Claim 3:

- the aligned direction of the openings is parallel to the central line of the V-like structure as Fig. 6 shown.

Claim 4-5:

- The shape of pixel structure is baguette (quadrate).

Claim 6:

- the V-like structure has a tip angle of 90 degrees as Fig 6 shown.

***Response to Arguments***

Applicant's arguments filed on 03/30/2005 have been fully considered but they are not persuasive.

Applicant's ONLY arguments are follows:

Takizawa fails to disclose (a) the protrusion 10 forming the W-like structure in one pixel, where one TFT 4 controls one pixel structure; (b) the slits 20 arranged to be aligned along a direction from the tip of the V-like structure.

Examiner's responses to Applicants' ONLY arguments are follows:

Takizawa fails to disclose (a) the protrusion 10 forming the W-like structure in one pixel where pixel is area comprising two or more pixel electrodes (attachment I); (b) the slits 20 arranged to be aligned along a direction from the tip of the V-like structure (see attachment II), but the slits 20 are not right below the tip and dividing the V-like structure into two portions or not the slits are not overlapped the tips of the W-like structure as Fig. 2 in the instant application.

Furthermore, feature "one TFT controls one pixel structure" is not stated in the claims 1 or claim 7, therefore, this argument is irrelevant.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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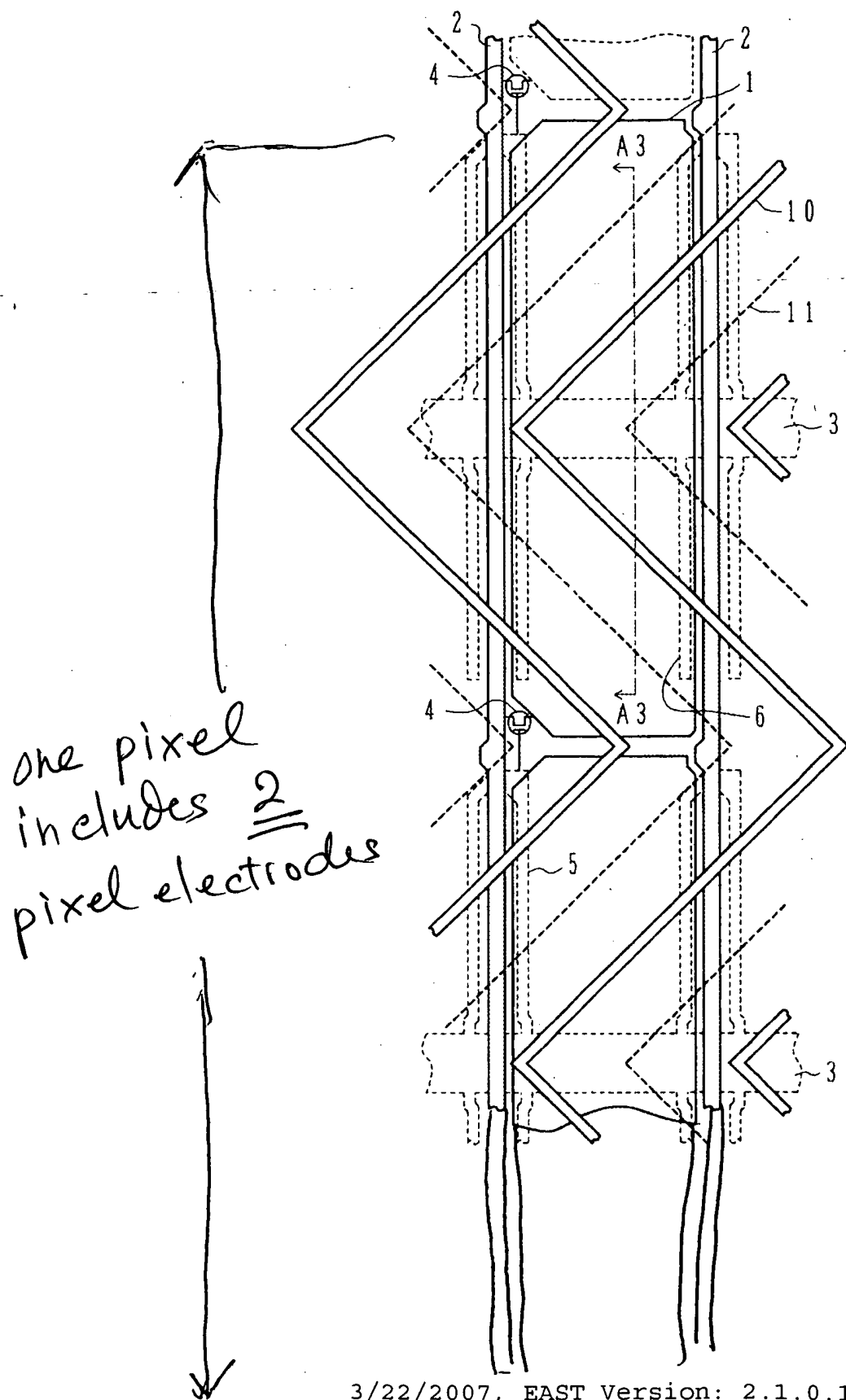
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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ANDREW SCHECHTER  
PRIMARY EXAMINER

**FIG. 1** Attachment I





Attachment II

FIG. 6

